

## CLAIMS

What is claimed is:

1. A detectable warning system, for installation onto a  
5 pavement surface adjacent to a hazardous transition,  
comprising:

a bottom layer, substantially planar, made of  
thermoplastic material;

- 10 a plurality of domes made of a heat resistant material,  
the domes positioned upon the bottom layer and arranged in a  
grid thereupon; and

a top layer, extending over the domes, conforming to the  
domes such that the domes are encapsulated between the top  
15 layer and bottom layer, the top layer extending substantially  
planar between the domes.

2. The detectable warning system as recited in claim 1,  
wherein the heat resistant material is selected from the  
20 group consisting of concrete, temperature resistant plastic,  
and earthen materials.

3. The detectable warning system as recited in claim 2,  
wherein the domes each have a substantially flat base  
25 surface.

4. The detectable warning system as recited in claim 3,  
wherein the domes each have a truncated upper surface.

5. A detectable warning method, for providing a tactile

5 warning upon a pavement surface, using a mold having a top  
surface and a plurality of dome creation cavities extending  
downwardly from the top surface, the dome creation cavities  
spaced apart from each other in a grid, comprising the steps  
of:

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covering the top surface of the mold with a first sheet  
of thermoplastic material;

coating the top surface and the mold and the dome  
creation cavities with a conforming continuous top layer of  
15 thermoplastic material by applying heat to the first sheet of  
thermoplastic material;

creating a plurality of detectable warning domes by  
filling the dome creation cavities with a heat resistant  
material;

20 creating a detectable warning carrier assembly by  
coating the detectable warning domes and top layer with a  
base layer of thermoplastic by fully covering the base layer  
and detectable warning domes with a second sheet of  
thermoplastic material and applying heat to the second sheet  
25 of thermoplastic material; and

applying the base layer to the pavement surface.

6. The detectable warning method as recited in claim 5,  
wherein the step of applying the base layer to the pavement  
surface is preceded by the steps of separating the top layer  
from the mold, and inverting the detectable warning carrier  
5 assembly; and further comprises the steps of adhering the  
base layer to the pavement by heating the base layer.

7. The detectable warning method as recited in claim 6,  
wherein the step of filling the dome creation cavities with a  
10 heat resistant material further comprises introducing into  
the dome creation cavities a flowable but settable, heat  
resistant material to substantially the level of the top  
surface of the mold, and allowing the heat resistant casting  
material to harden.

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8. The detectable warning method as recited in claim 7,  
wherein the heat resistant material is selected from the  
group consisting of concrete, earthen materials, and heat  
resistant plastic.

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9. The detectable warning method as recited in claim 8,  
wherein the step of applying the base layer to the pavement  
surface further comprises positioning the base layer adjacent  
to a hazardous transition.

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10. The detectable warning method as recited in claim 6,  
wherein the step of applying the base layer to the pavement

surface further comprises positioning the base layer adjacent to a hazardous transition.